

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number
WO 2004/106372 A1

(51) International Patent Classification⁷: **C07K 14/47,**
A61K 35/36, 35/12, 38/16

(74) Agents: WILSON, Kathryn, S. et al.; Level 3, Spicer
Building, 329 Durham Street, P.O. Box 2201, Christchurch
(NZ).

(21) International Application Number:
PCT/NZ2004/000101

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date: 26 May 2004 (26.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
526157 27 May 2003 (27.05.2003) NZ

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): VEL-
VET ANTLER RESEARCH NEW ZEALAND LIM-
ITED [NZ/NZ]; c/- Stephen Haines, AgResearch Inver-
may, Private Bag 50034, Mosgiel (NZ).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): COATES, Dawn,
Elizabeth [NZ/NZ]; Invermay Agricultural Centre, Puddle
Alley, Mosgiel (NZ). HAINES, Stephen, Roy [NZ/NZ];
68 Tyne Street, Mosgiel (NZ). SUTTIE, James, Miller
[NZ/NZ]; Invermay Agricultural Centre, Puddle Alley,
Mosgiel (NZ).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: DEER ANTLER EXTRACT FOR PROMOTING ANGIOGENESIS

(57) Abstract: An isolated extract of deer velvet which contains components which have molecular weights that are substantially less than or equal to 10 kDa and which have a proliferative effect on endothelial cells and/or promote angiogenesis.

WO 2004/106372 A1